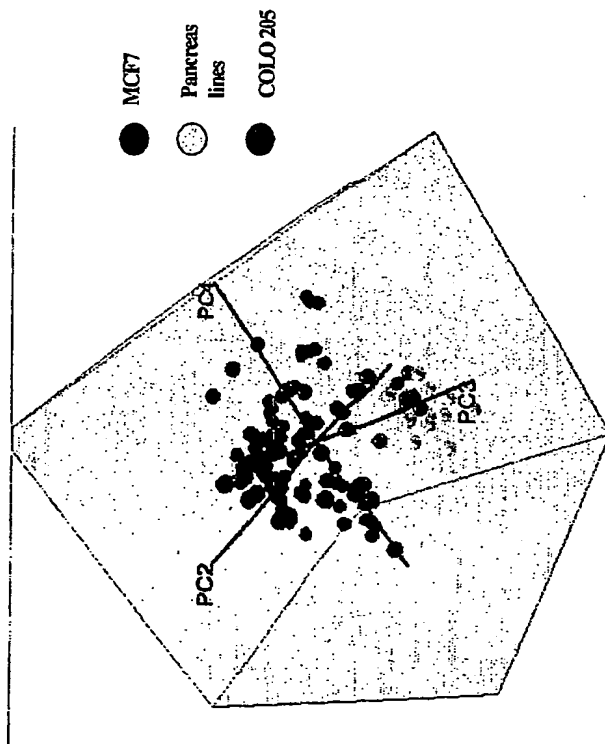


Compound-centric approach to selection of sensitive and resistant cell lines yields a cell line (colo205) that is as sensitive as the original sensitive line (MCF-7) and 2 lines that are more than 10 fold less sensitive by growth inhibition

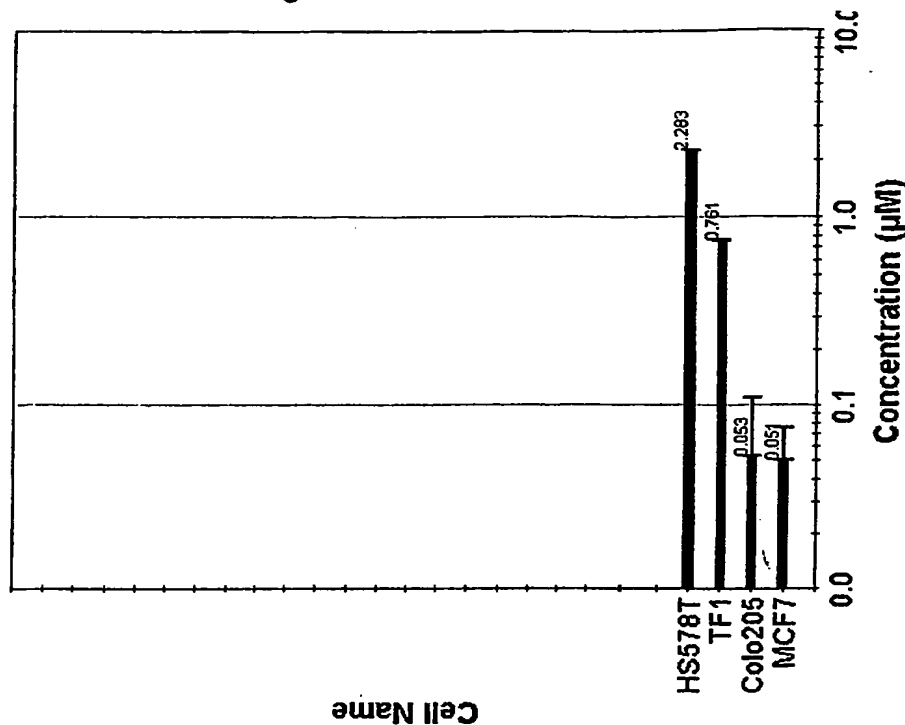
Average IC50, AV-90356, 72hr

Cell lines shown in yellow and green have similar gene signatures compared with compound treated sensitive cell line MCF7 in red



Cell lines in blue are less similar to sensitive cell line

Fig. 1



Colo205 is predicted by our method to be sensitive to this compound by harboring a similar gene signature to MCF7, whereas HS578T and TF1 are located within the mass of cell lines shown in blue on the figure on the left and are predicted to be resistant for this compound family.